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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/475,141	12/30/1999	FEN-CHUNG KUNG	1999-0353	6000

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EXAMINER

YAO, KWANG BIN

ART UNIT	PAPER NUMBER
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2664

DATE MAILED: 03/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/475,141

Applicant(s)

KUNG ET AL.

Examiner

Kwang B. Yao

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2,7,8.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because it should not compare the invention with the prior art. Correction is required. See MPEP § 608.01(b).

Claim Objections

2. Claim 4 is objected to because of the following informalities: it is not clear whether claim 4 depends on claim 1 or 3. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 2, 7, 8, 11, 12, 15, 16 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Kim (US 6,490,274).

Regarding claims 1, 7, 11, 15, Kim discloses an telephony service system comprising the following features: a Broadband Residential Gateway (Fig. 2 REF 200) coupled to a plurality of customer premises equipment and to a Hybrid Fiber Coaxial network, a Head End Hub (Fig. 2 REF 202, 204, 206, 207, 216) comprising: a Cable Modem Bank (Fig. 2 REF 206, 207) coupled

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to an Edge Router (Fig. 2 REF 216) and to a Head End (Fig. 2 REF 202), the Edge Router (Fig. 2 REF 216), coupled to the Cable Modem Bank (Fig. 2 REF 206, 207) and to a High Speed Packet Network (Fig. 2 REF 254), wherein the Head End Hub (Fig. 2 REF 202, 204, 206, 207, 216) is coupled to the Hybrid Fiber Coaxial network and to a High-Speed Packet Network (Fig. 2 REF 254), the High Speed Packet Network (Fig. 2 REF 254) coupled to the Head End Hub and to an Internet Protocol Central Office (Fig. 2 REF 260), and the Internet Protocol Central Office (Fig. 2 REF 260), coupled to the High Speed Packet Network (Fig. 2 REF 254) and to an external network (Fig. 2 REF 260).

Regarding claims 2, 8, 12, 16, Kim discloses the plurality of customer premises equipment includes at least one of: a television, a telephone and a personal computer (Fig. 2, REF 208,210).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 3-6, 9, 10, 13, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US 6,490,274) in view of LaPier et al. (US 6,333,931).

Kim discloses the claimed features described above. Kim does not disclose the features of: regarding claims 3, 9, 13, external network is a public switched telephony network with a Signaling System Seven and an Operation, Administration, Maintenance and Provisioning system; regarding claims 4, 10, 14, the public switched telephony network includes a billing system; regarding claim 5, the High Speed Packet Network is coupled to an Internet Protocol Local Number Portability database; regarding claim 6, the High Speed Packet Network is coupled to a Local Service Management System. LaPier et al. discloses an apparatus for interconnecting a circuit-switched network and a packet-switched network comprising the following features: external network is a public switched telephony network with a Signaling System Seven (Fig. 1, REF 20) and an Operation, Administration, Maintenance and Provisioning system (Fig. 1, REF 12); the public switched telephony network includes a billing system (See column 19, lines 2-15); the High Speed Packet Network is coupled to an Internet Protocol Local Number Portability database (See column 16, lines 17-51); the High Speed Packet Network is coupled to a Local Service Management System (Fig. 1, REF 16). It would have been obvious to one of the ordinary skill in the art at the time of the invention to modify the system of Kim by using the features, as taught by LaPier et al., in order to improve signaling security and data channel security. See column 2, lines 9-11.

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Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Schessel (US 6,304,566) discloses a telecommunication system.

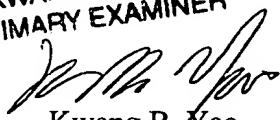
Hrastar et al. (US 6,295,298) discloses an asymmetrical network.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwang B. Yao whose telephone number is 703-308-7583. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 703-305-4366. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

KWANG BIN YAO
PRIMARY EXAMINER



Kwang B. Yao
March 17, 2003